

Application No. 10/775,453
Attorney Docket No. 13DV-13640 (07783-0151)

C.) AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions, and listings of claims in the Application.

1. (canceled)
2. (currently amended) A The composition for forming a bond coat of claim 1 for use with a ceramic composite component, the composition comprising:
an alumina powder;
a silica-yielding liquid;
glass frits, [1]; wherein the alumina powder and the glass frits each comprise
comprises about 45 weight percent, and the silica-yielding liquid comprise a the
remaining solids portion of the composition; and
an amount of solvent sufficient to permit mixing of the components and forming
a bond coat.
3. (currently amended) The composition bond coat of claim [1] 2 wherein the silica-yielding liquid is comprised of silicone resins.
4. (currently amended) The composition bond coat of claim [1] 2 wherein the solvent is comprised of ethanol and isopropyl alcohol.
5. (currently amended) The composition bond coat of claim [1] 2 further comprising a dispersant.
6. (currently amended) The composition bond coat of claim [1] 2 wherein the glass frits are a mixture comprising calcium oxide, silicon oxide, aluminum oxide, barium oxide, and magnesium oxide.
7. (currently amended) The composition bond coat of claim 6 wherein a percentage weight of each component of the total weight of the mixture is controlled to provide a predetermined melting point of the mixture bond coat.

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8. (currently amended) The composition ~~bond-coat~~ of claim ~~[[1]]~~ 2 wherein the bond coat is a slurry spray.
9. (currently amended) The composition ~~bond-coat~~ of claim ~~[[1]]~~ 2 wherein the bond coat is a tape.
10. (currently amended) The composition ~~bond-coat~~ of claim ~~[[1]]~~ 2 wherein the bond coat is applied with a brush.
11. (currently amended) The composition ~~bond-coat~~ of claim ~~[[1]]~~ 2 wherein the bond coat is from about 0.002 to about 0.004 inches thick.
12. (currently amended) The composition ~~bond-coat~~ of claim ~~[[1]]~~ 2 wherein a melting point of the bond coat applied to a surface of a component, the component subsequently fired, is about 1,950°F.
13. (canceled)
14. (canceled)
15. (currently amended) ~~A The method of claim 13-an additional step, after the step of applying the bond-coat and before the step of applying the ceramic-coat, of~~ producing a coated ceramic composite component having a substrate, the steps comprising:
 - providing a ceramic composite component having a substrate;
 - applying a bond coat over the substrate, wherein the bond coat is formed by
 - mixing an alumina powder, a silica-yielding liquid, glass frits and solvent;
 - firing the ceramic composite component;
 - applying a ceramic coat over the bond coat; and
 - firing the ceramic composite component.
16. (currently amended) ~~A The method of claim 13-wherein the step of applying the bond-coat includes the step of slurry-spraying the ceramic-barrier-coating mixture onto the component~~ producing a coated ceramic composite component having a substrate, the steps comprising:
 - providing a ceramic composite component having a substrate;

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applying a bond coat over the substrate, the bond coat application selected from the group consisting of a slurry spray, a tape and a brush, wherein the bond coat is formed by

mixing an alumina powder, a silica-yielding liquid, glass frits and solvent;

applying a ceramic coat over the bond coat; and

firing the ceramic composite component.

17. (canceled)

18. (canceled)